

**WE CLAIM AS OUR INVENTION:**

1. A magnetic resonance apparatus comprising:  
a magnetic resonance scanner having an interior examination space;  
a patient bed mechanism, adapted to receive an examination subject thereon,  
which is movable into and out of said examination space;  
a gradient coil unit which is movable into and out of said examination space;  
and  
a coupling unit for coupling said gradient coil unit to said patient bed mechanism for moving said gradient coil unit relative to said examination space with said patient bed mechanism, said coupling device automatically firmly joining said gradient coil unit to said patient bed mechanism when said patient bed mechanism moves toward and contacts said gradient coil unit in a movement direction, and releases said gradient coil unit from said patient bed mechanism when said patient bed mechanism again moves in said movement direction.
2. A magnetic resonance apparatus as claimed in claim 1 further comprising a cart for receiving said gradient coil unit outside of said examination space.
3. A magnetic resonance apparatus as claimed in claim 2 comprising a pivotable connection pivotably attaching said cart to said scanner adjacent to said examination space.
4. A magnetic resonance apparatus as claimed in claim 1 wherein said patient bed mechanism comprises electrical connections for supplying power to said gradient coil unit.

5. A magnetic resonance apparatus as claimed in claim 1 further comprising a guide device disposed in said examination space and interacting with said gradient coil unit in said examination space to guide said gradient coil unit through said examination space.

6. A magnetic resonance apparatus as claimed in claim 5 wherein at least a portion of said guide device also interacts with and guides said patient bed mechanism.

7. A magnetic resonance apparatus as claimed in claim 6 wherein at least a portion of said guide device extends into said patient bed mechanism.

8. A magnetic resonance apparatus as claimed in claim 1 wherein said coupling device is remotely actuatable to couple and uncouple said gradient coil unit and said patient bed mechanism.